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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/599,715	07/23/2007	Masami Suzuki	296753US0PCT	3252
22850 7590 027472011 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.,P.			EXAM	INER
1940 DUKE STREET ALEXANDRIA, VA 22314		CREPEAU, JONATHAN		
			ART UNIT	PAPER NUMBER
			1725	
			NOTIFICATION DATE	DELIVERY MODE
			02/24/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Office Action Summary

Application No.	Applicant(s)		
10/599,715	SUZUKI ET AL.		
Examiner	Art Unit		
Jonathan Crepeau	1725		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any

6) Claim(s) 1 and 4 is/are rejected. 7) Claim(s) _____ is/are objected to.

eam	earned patent term adjustment. See 37 CFR 1.704(b).		
Status			
1)🛛	Responsive to communication(s) filed on 21 December 2010.		
2a)🛛	This action is FINAL . 2b) ☐ This action is non-final.		
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the mer		
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposit	ion of Claims		
4)🛛	Claim(s) 1 and 4 is/are pending in the application.		
	4a) Of the above claim(s) is/are withdrawn from consideration.		
5)□	Claim(s) is/are allowed.		

8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers

9)∐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a)

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

a) All b) Some * c) None of:

1.	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No
3.	Copies of the certified copies of the priority documents have been received in this National Stage
	application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s	3
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Attachment(s)		
) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
Notice of Profisecreon's Patent Drawing Review (FTO-942)	Paper No(s)/Mail Date	
) Information Disclosure Statement(s) (PTO/SB/08)	 Notice of Informal Patent Application 	
Paper No(s)/Mail Date	6) Other:	

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DETAILED ACTION

Response to Amendment

 This Office action addresses claim 1 and newly added claim 4. The claims are rejected under 35 USC 103, as necessitated by amendment. Accordingly, this action is made final.

Claim Objections

 Claim 1 is objected to because of the following informalities: in line 11, "place" should be "plate." Appropriate correction is required.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
 obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe et al (U.S. Patent 5.354.628) in view of JP 6-20704.

Watanabe et al. teach a liquid action substance battery comprising an alkaline metal negative pole action substance and a liquid oxyhalide material as the positive pole action Art Unit: 1725

substance. As shown in Figure 2, the battery comprises a battery can having a bottom surface comprising an inner face and an outer face. An annular resin ring (5) is positioned adjacent the inner face of the bottom surface of the battery can. Regarding claim 1, as shown in Figure 6, the annular ring is preformed to as to have a protrusion (viewable as solid area adjacent "5c") in a center part of the plate thereby forming a partial space between the plate the bottom surface of the battery can. Regarding claim 4, the bottom surface of the battery can is preformed to have a protrusion (viewable as outer radial portion "2" extending upwards from the bottom, or as central portion "3" extending downwards from ring 5), thereby forming a partial space between the annular plate and the bottom surface of the battery can.

Watanabe et al. do not expressly teach that the ring is made of metal, as recited in claims 1 and 4.

JP '704 teaches a liquid action substance battery comprising an alkaline metal negative pole action substance and a liquid oxyhalide material as the positive pole action substance. As described in the abstract and in the Figure, a porous metal plate (5) is welded to the inner surface of the bottom (4) of the battery can.

Therefore, the invention as a whole would have been obvious to one of ordinary skill in the art at the time the invention was made because the artisan would be motivated by JP '704 to form the annular ring of Watanabe et al. of metal. In [0007], JP '704 discloses that by virtue of using the metal plate, "explosion proof function of a thin-walled part operates normally, and the safety of a cell is secured." Accordingly, the artisan would be motivated by JP '704 to form the annular ring of Watanabe et al. of metal. Further, since the ring of Watanabe et al. and the metal

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plate of JP '704 have very similar functions, it would have provided a predictable result to use metal in the ring of Watanabe et al., either instead of or in addition to the resin. Accordingly, the subject matter of claims 1 and 4 is rendered obvious.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Crepeau whose telephone number is (571) 272-1299. The examiner can normally be reached Monday-Friday from 9:30 AM - 6:00 PM EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Basia Ridley, can be reached at (571) 272-1453. The phone number for the organization where this application or proceeding is assigned is (571) 272-1700. Documents may be faxed to the central fax server at (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Jonathan Crepeau/ Primary Examiner, Art Unit 1725 February 18, 2011